

EM Gas Marketing (EMGM) to Clean Energy Renewable Fuels, LLC (Fresh Kills Landfill, New York) CA-GREET Model

The applicant has conducted its analysis of direct effects on carbon intensity for this pathway using CA-GREET, v.1.8b (Dec. 2009) (See http://www.arb.ca.gov/fuels/lcfs/ca_greet1.8b_dec09.xls). The standard inputs and parameters specified in CA-GREET remain unchanged except as noted in the input table below. The input table below specifies the spreadsheet location of the CA-GREET inputs and other parameters that were claimed as confidential business information or trade secret by the applicant, but it does not disclose the actual value of such inputs and parameters because they are claimed to be confidential business information or trade secret.

EMGM Input data table (Locations of cells containing Confidential Business Information are shown, but the actual values of such confidential information are not disclosed):

| Parameter | Unit | Value | CA-GREET Cell Changed |
|----------------------------|-----------|--------------|------------------------|
| LFG Recovery and Transport | | | NG Tab |
| Thermal | Btu/MMBtu | Confidential | CA-GREET Default (L85) |
| Electricity | Btu/MMBtu | Confidential | F159 |
| Total Energy | Btu/MMBtu | Confidential | N/A |
| LFG Recovery Efficiency | % | Confidential | F154 |
| LFG Plant | | | NG Tab |
| LFG Processing Efficiency | % | Confidential | AI66 (via F155) |
| Electricity Fuel Share | % | Confidential | AI80 (via M163) |
| LFG Fuel Share | % | Confidential | AI76 (via M162) |
| Natural Gas Fuel Share | % | Confidential | AI75 (via M161) |
| Electricity | kWh/MMBtu | Confidential | F163 |

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|---------------------------|--------------|---------------------------------|-------------------------------|
| Electricity | Btu/MMBtu | Confidential | Calculated in CA-GREET (AI93) |
| LFG | Btu/MMBtu | Confidential | Calculated in CA-GREET (AI87) |
| Natural Gas | Btu/MMBtu | Confidential | Calculated in CA-GREET (AI86) |
| Credit for Not Flaring | Btu/MMBtu | Confidential | Calculated in CA-GREET (AJ90) |
| Total Energy | Btu/MMBtu | Confidential | N/A |
| NYCW Electricity Grid Mix | | Regional LT Tab | |
| Residual oil | % | 1.7631 | K83 |
| Natural gas | % | 97.2549 | K84 |
| Coal | % | 0 | K85 |
| Nuclear | % | 0 | K86 |
| Biomass | % | 0.5234 | K87 |
| Other (renewables) | % | 0.4585 | K88 |
| AZNM Electricity Grid Mix | | Regional LT Tab | |
| Residual oil | % | 0.1 | J83 |
| Natural gas | % | 58.2 | J84 |
| Coal | % | 39.6 | J85 |
| Nuclear | % | 0.0 | J86 |
| Biomass | % | 0.3 | J87 |
| Other (renewables) | % | 2.8 | J88 |
| Natural Gas Transport | | T&D Flowcharts Tab (via NG Tab) | |
| Pipeline Distance | mi | Confidential | F479 (via F166) |
| CNG Produced | Btus per GGE | Confidential | |
| Compression Electricity | Btus per GGE | Confidential | AA79 |
| Compression Natural Gas | Btus per GGE | Confidential | AA75 |
| Compression Efficiency | Btus per GGE | Confidential | AA66 |